

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



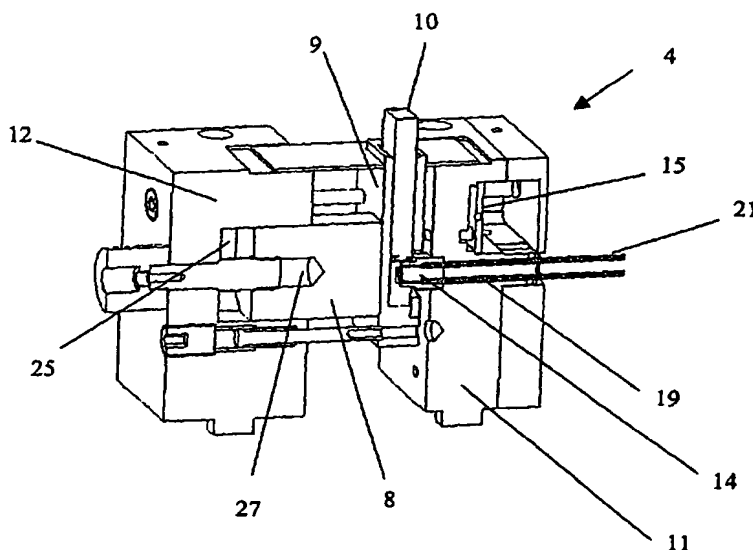
(43) International Publication Date  
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number  
**WO 2004/057319 A1**

- (51) International Patent Classification<sup>7</sup>: G01N 27/12, C12M 1/34
- (21) International Application Number: PCT/SE2003/002001
- (22) International Filing Date: 18 December 2003 (18.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0203772-9 19 December 2002 (19.12.2002) SE
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PIEZOELECTRIC SENSOR ARRANGEMENT



(57) Abstract: A piezoelectric sensor arrangement for analysis of fluid samples, which includes a signal source, a measuring device and a docking system, which comprises a first part (8) provided with means (9) for receiving a sensor element (10) that exposes a piezoelectric quartz crystal (32) and a second part (11, 12) comprising fluid channels (13) for the sample and a flow cell element (14), which preferably is removable and which comprises a recess (45), and inlet and outlet fluid channels (46) for leading a fluid through the recess. Said first and second parts are movable in relation to each other between a closed position and an open position and are arranged such that in the closed position the recess (45) of the flow cell element (14) is sealingly covered by the piezoelectric quartz crystal (32) so that a flow cell is formed by said flow cell element and said quartz crystal.